

Abstract

Even the technology is more sophisticated, the threats are also more variative, especially in security system. One of the ways to handle the security and network system is IDS (Intrusion Detection System). This intrusion detection system has been developed and one of the developments is using Artificial Immune System (AIS) algorithm which was adapted from human immune system. The idea of using AIS for IDS is because IDS is a system that is expected to detect the anomaly intrusions or the attacks that can harm the system while AIS is adapted from the human immune system that surely can detect and handle the viruses and bacteria that can harm the human body.

This method is combined with the evolution processes in genetic algorithm like crossover and mutation to produce the more optimal detectors. This system will produce the binary string rule that is the detectors that are expected to detect if there may be attacks on system.

Keywords: intrusion detection system, artificial immune system, genetic algorithm.